

MARINE COMMUNICATIONS



Setcom[®]
SetcomCorp.com

MARINE COMMUNICATIONS

For over 45 years, marine professionals have relied on Setcom's communications equipment. A pioneer in the field, Setcom remains an industry leader because it works with users to develop the kind of innovative, tailor-made products professionals depend on. Professionals in the U.S.A. and many countries worldwide, rely on Setcom products everyday to provide the hearing protection and clear communications they need.

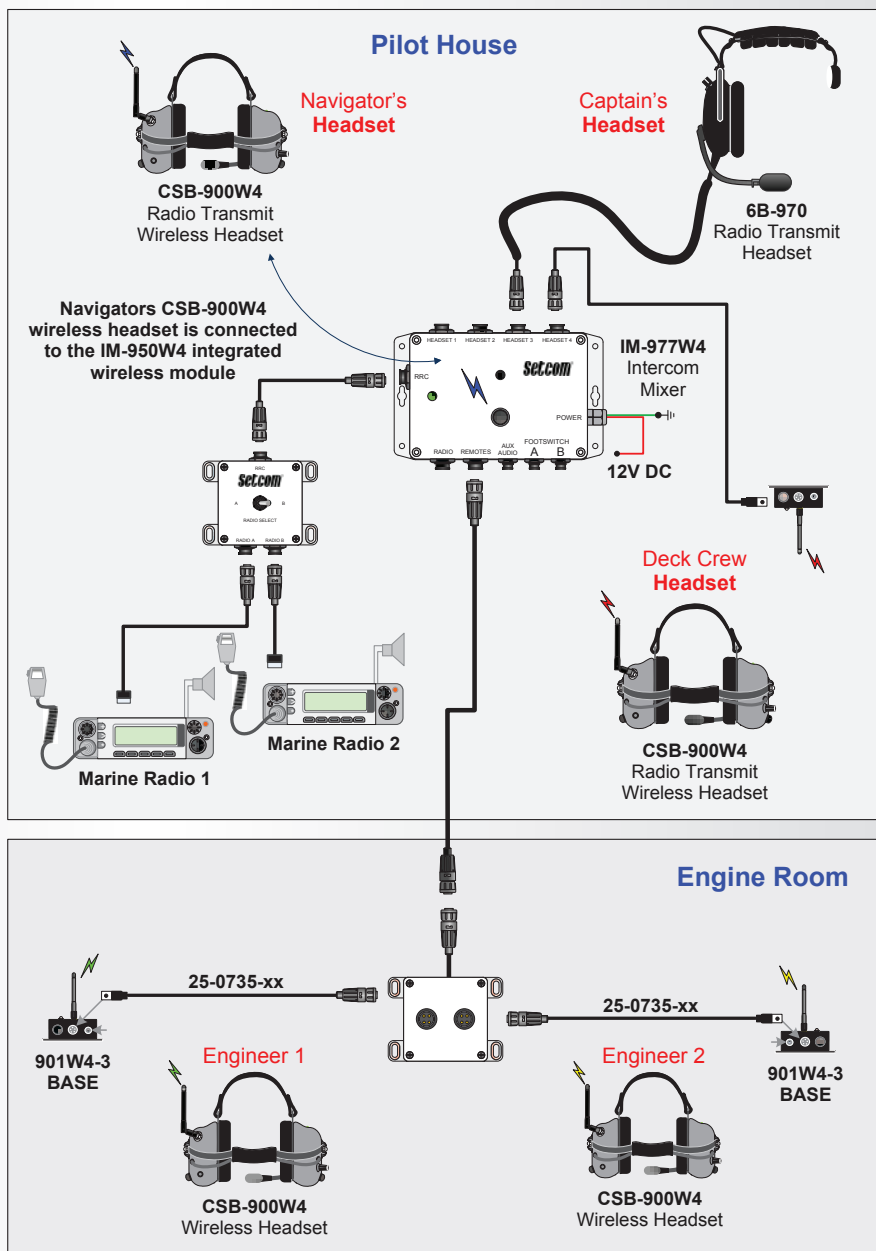
Tradition of Quality, Experience and Innovation

- Premier communications systems and accessories for all widely-used portable and mobile radios.
- Outstanding quality and durability; time-tested designs: Setcom's products have been designed, engineered and assembled in the USA for over 45 years.
- Meticulous attention to quality: No product leaves Setcom without being fully tested in the United States. Your satisfaction is our highest priority.
- Customer-driven innovation: Setcom will work with you to develop a system that meets your needs.

Unequalled Service and Support

- Dedicated, live technical support available 55 hours every week.
- Responsive, in-house service department, combined with fully repairable parts and components, decreases your lifetime cost of ownership.

Representative Workboat System



Intercoms



INTERCOMS

Setcom makes an intercom system for nearly every marine application, all backed by quality and service that you can rely on. Wireless headsets available for intercom systems below.

SYSTEM	APPLICATION	DESCRIPTION
900SP ^b	Marine and Interior Applications	The System 900SP packs an entire single-person system into a rugged single box, with a quick and easy installation. This system allows for communications on up to three radios with a variety of medium-to-heavy duty headsets.
900SPW4 ^b	Marine and Interior Applications	The System 900SPW4 has all of the features of the System 900SP, with one added benefit. It has an internal wireless module, which eliminates the need to install a headset base station for the wireless headset.
TwinTalk ^{a, b, c}	Airboat, go fast, workboats, public safety boats	Two-person intercom system. Completely wireless. Easiest intercom system to use. No installation required. Allows for integration of portable radio and cell phone.
977 ^b	For boats with open cabins	Setcom's System 977 is fitted in weatherproof boxes, with waterproof twist-lock connectors for headset jacks. Rugged and weatherized for moist environments. Plug-n-play design components ensure easy installation.
977W4 ^b	For boats with open cabins	The System 977W4 has all of the features of the System 977, with one added benefit. It has an internal wireless module, which eliminates the need to install an additional headset base station for one wireless headset
1310 ^b	Setcom premier "split audio" system. For applications that require multiple people to utilize multiple radios.	Premier system for managing multiple radios. Up to 3 radios can be managed from multiple positions. Allows crew member to hear intercom and VHF traffic in one ear and public safety radio in other ear.
1600	Command and Coast Guard Applications	A four person, up to six radio intercom system. It allows crew members to independently select, monitor, and transmit over all six radios.



System 900SP



System 977



System 977W4



System 1310

^a Cell phone interface compatible

^b Wireless headset compatible

^c Completely wireless system

INTERCOM SYSTEM-PROFESSIONAL PRODUCT TABLE

The 900 Series will meet most crew communications requirements. Setcom has other systems for unique applications.

Intercom System Series	Professional Use			
	TwinTalk™	900SP/977/977W4	1300	1600
Application / Design Description	Setcom's easiest system to set up and use. Designed for two users to communicate wirelessly up to 1,200 feet apart.	Setcom's most versatile crew communication system. Highly modular vehicle intercom system that accommodates most situations/radios.	Premier dual radio system. Unique split audio feature allows users to distinguish between simultaneous traffic on two different radios.	A 4-person, 6 radio intercom. The System 1600 is ideal for command vehicles. It allows crew members to select, monitor and transmit over all 6 radios simultaneously.
Recommended # of Radios	1 (portable)	1 ---> 2	2 ---> 3	3 ---> 6
Recommended Number of Crew Members	2	1 ---> 13	1 ---> 8	1 ---> 4
Number of Radio Transmit Positions	2	1 ---> 5	1 ---> 5	1 ---> 6
Wireless Headset Option	✓	✓	✓	
Entertainment Audio (iPod, Weather Radio)		✓	✓	
Optional Bluetooth Cell Phone Module	✓	✓		
Vehicle Installation Required		✓	✓	✓
Applications:				
Civilian Watercraft	✓	✓		
Public Safety / Border Patrol Marine Vessels	✓	✓	✓	
Structural Fire Apparatus	✓	✓	✓	
Command Vehicles		✓	✓	✓
Mobile Command Vehicle / Unit / Center		✓	✓	✓
ARFF Vehicle			✓	✓
Workboats	✓	✓	✓	
Trains	✓	✓	✓	
Transit Systems	✓	✓	✓	
Wild Land Fire / Brush Trucks	✓	✓	✓	
Industrial Situations	✓	✓	✓	

977 Intercom



SYSTEM 977/977W4

Setcom's most popular and versatile intercom. Developed specifically for crew communications in vessels and vehicles.

The System 977's simplicity of design cuts costs, not corners:

- With outstanding durability and 25-year legacy, the System 977 is a top-quality intercom that has been put to the test.
- This modular system accommodates up to three radios, ten crew members and fourteen positions, including eight intercom positions.
- Plug and play components and the fewest components of any leading system make the System 977 easy to install. Saving you time and money.
- Repairable parts decrease the lifetime cost of ownership, and fast repair turnaround decreases downtime.
- Setcom stands behind every system with dedicated technical support staff and an in-house service department.
- Ruggedized system fitted in weatherproof boxes, with gasketed lids for headset jack.

Master Station

- Full-duplex intercom, allowing normal conversation among crew members
- All crew members hear both radio and intercom traffic
- Protection against radio frequency interference (RFI), electro-magnetic interference (EMI) and ground loops
- Audio input jack allows crew to enjoy entertainment audio such as weather radio, MP3, GPS, etc.
- Available with optional driver's and crew footswitches

Headsets

- Noise reduction rating (NRR) of at least minimum 23dB, help meet NFPA 1500 and OSHA hearing conservation regulations
- Wireless option available
- Volume controls and push-to-talk (PTT) buttons in the headsets make the system easy to install, use and repair
- Radio PTT in headsets keys the radio; only the keying headset transmits over the radio
- Radio transmit headsets are always live on the intercom; available with portable radio adapter cables (PRACs) for use with portable radios
- Intercom PTT in jumpseat headsets permits intercom access and prevents unwanted noise from vacant positions
- 15-foot coil-cord eliminates the need for extension cables for wired headsets
- Cadmium-bronze, coil-cord conductors prevent broken conductors and intermittent audio

Speakers

- Rigidly mounted in the headset to prevent broken leads
- Specifically designed for radio traffic in the voice frequency range

Microphone

- Waterproof, amplified microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission

Cabling

- Flexible-boom with counter-wound beryllium-alloy springs resists work-hardening and fatigue
- Double shielded cabling (one shield on the microphone line and another on the overall cable) prevents radio frequency and electro-magnetic interference
- Interconnecting cables are fitted with waterproof connectors

Warranty

- Two Years



900SP

Single-Person System



900SP/900SPW4

An advanced single-person system for industrial vehicle, workboat, and interior building applications, the System 900SP allows for communications on up to two radios with a variety of wired or wireless, medium-to-heavy duty headsets.

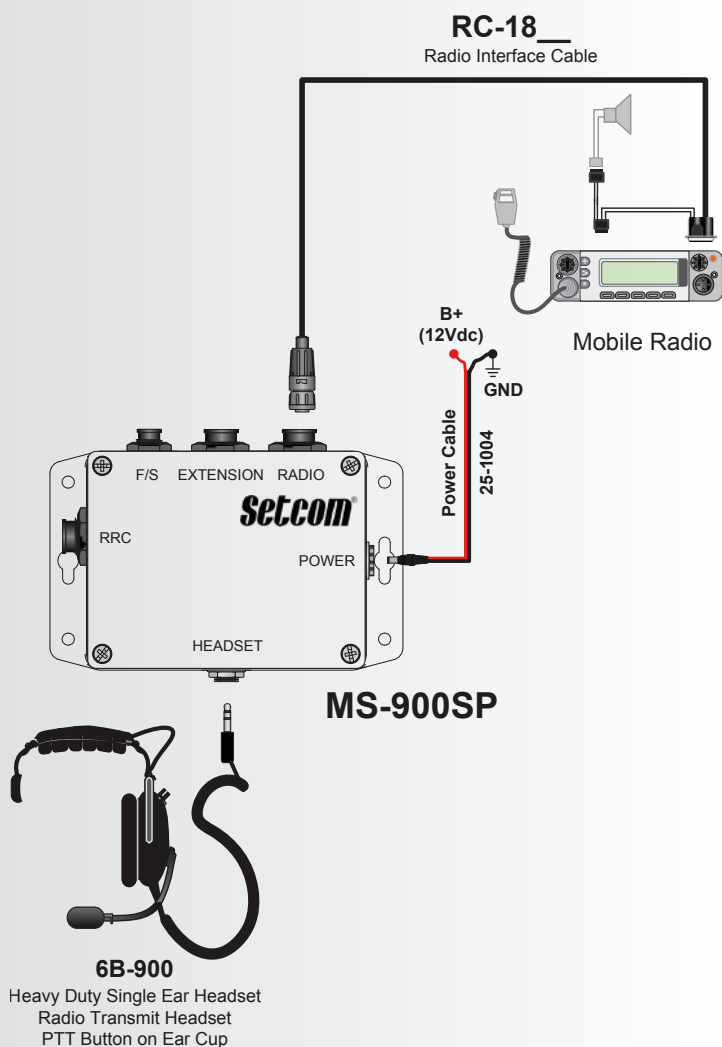
The modular system can accommodate up to:

- 2 radios
- 1 user
- 1 primary and 1 remote station (optional)

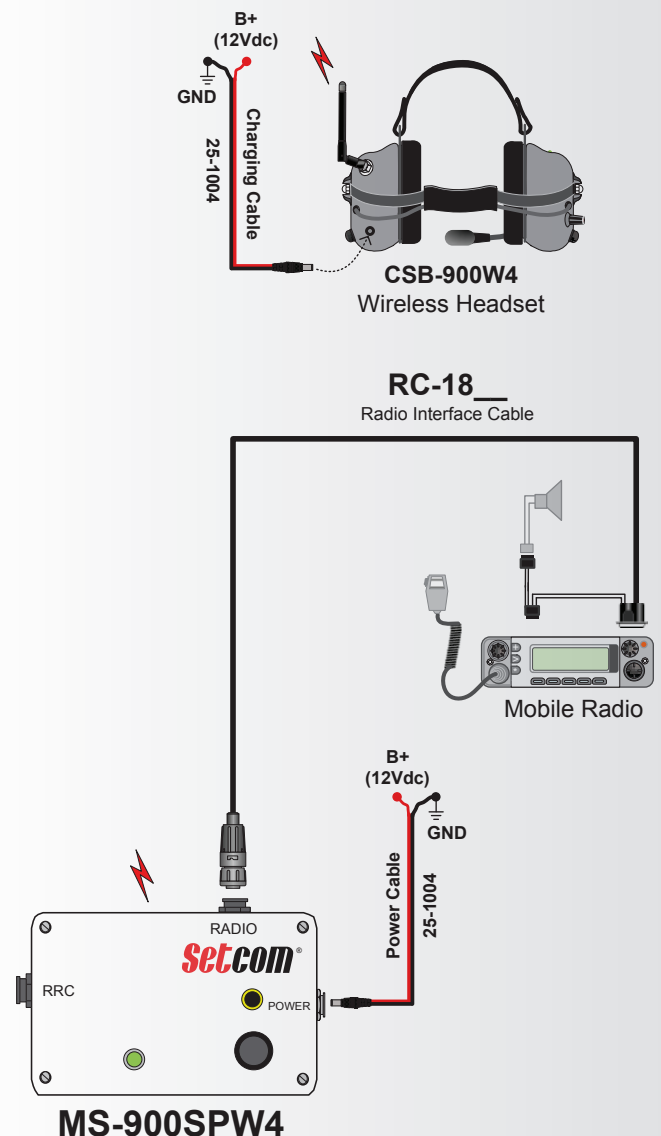
Plug and play components and the fewest components of any leading system make the 900SP the easiest and fastest wireless system on the market to be installed and deployed. The option to have a wireless module integrated internally in the System 900SP housing makes the system highly versatile for today's advanced industrial applications.

900SP options can be found on the next page.

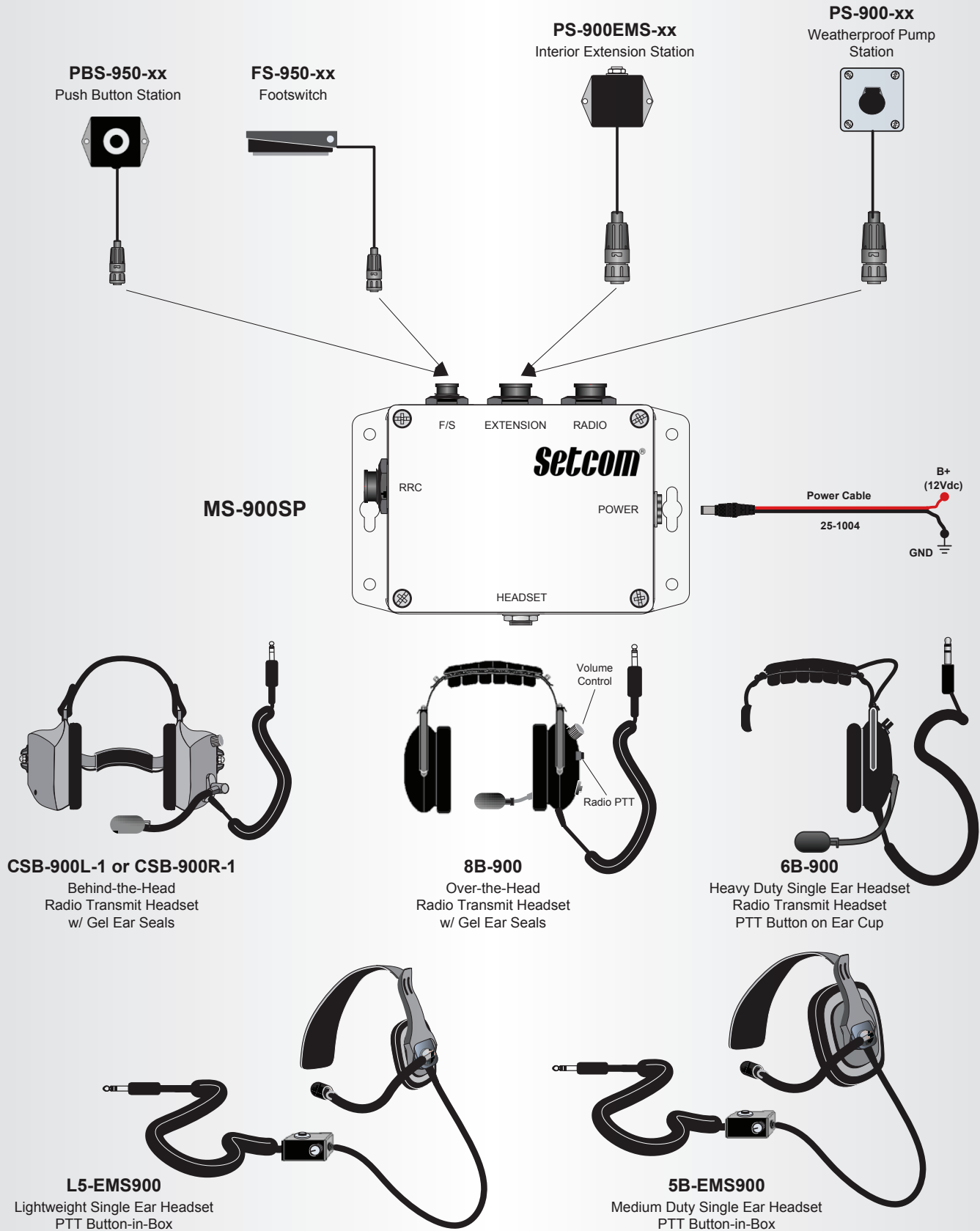
900SP Sample Diagram



900SPW4 Sample Diagram



900SP System Options



LIBERATOR TWINTALK™ INTERCOM SYSTEM

The easiest intercom system on the planet to use. Two-person intercom system that is rugged and made to be deployed instantly for numerous applications and environments. Just turn it on and you will be connected with the other headset in the pair. Incorporates all of the state-of-the-art features of the Liberator Wireless Intercom headset but does not require any installation or a base station.

- Up to 1200 feet of range (line of sight). Typical range 300ft.
- "Instant On" - No need to turn the headset on and off. Advanced motion sensor technology has been integrated into the Liberator TwinTalk headsets. Headset shuts down after 15 minutes of inactivity and will automatically turn back on when the user puts on the headset
- Cell Phone Integration - Most Bluetooth®-enabled cell phones can be used directly with the Liberator TwinTalk headset
- No installation required. No based station needed. Just turn the headsets on and start talking
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Ability to integrate portable radio into the headset allowing the user to simultaneously communicate over the portable radio and intercom
- Encrypted link for maximum security
- Premium dual-speaker headset with noise reduction rating of 23dB
- Waterproof, noise-cancelling microphone for wet and rugged conditions
- Heavy-duty and durable design to extend life in a demanding environment
- Available in Behind-the-Head Style
- Will operate while plugged into charging power port

Wireless Applications and Uses:

- Boat / Vessel docking maneuvers
- Engine room communications
- Pilot house to deck communications
- Port loading and unloading processes
- High noise, marine environments





Headsets

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HEADSETS

Setcom offers a variety of headsets for high, medium and low-noise environments.

Setcom's headsets feature:

- Outstanding quality and durability
- Compatibility with the full range of Setcom intercom systems
- Wireless and wired options available
- Refurbishment program which dramatically extends useable life, even in the most demanding environments
- Variety of volume control and push-to-talk options:
 - When used with a Setcom intercom system, the volume control(s) and push-to-talk button(s) are typically either located in the headset or integrated into the intercom system's master or remote stations.
 - For single headset applications, volume control and push-to-talk button are offered in a number of designs, including in the headset and in-line.

Headset Alternatives

Liberator Wireless Headsets

- "Instant On" - Advanced motion sensor technology has been integrated into the Liberator headset
- Direct headset to cell phone
- Up to 1200 ft range line-of-sight. Typical Range 300ft.
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Available in Behind-the-Head styles
- Encrypted wireless link for maximum security
- Noise reduction rating of 23dB

CSB Series Headsets - Behind the Head

- Premium dual-speaker headset with a noise reduction rating of 24dB
- Cut-away ear cups allow headset to be worn under most safety helmets
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- The standard for most System 900 and 922 applications

8B Series Headsets - Over the Head

- Premium dual-speaker headset with a noise reduction rating of 23dB
- Over-the-head headband and innovative noise insulation contribute to a lightweight headset that is more comfortable than most high-noise headsets
- Microphone swivels 270 degrees allowing headset to be worn right or left dress (except with Setcom's System 1310)
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- The standard for most System 1310 applications as well as other extended-use applications in high-noise marine environments



Liberator Wireless Headset



CSB Series Headset



8B Series Headset

HEADSETS (continued)

6B Series Headsets - Single Ear / Over the Head

- Rugged, single-ear headset for medium-to-low noise marine environments
- Comfortable for extended use applications such as command centers where having one ear open helps with communication
- Swivel boom allows headset to be worn right or left dress
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission

5B Series Headsets - Single Ear

- Rugged, lightweight single-speaker headset for low-noise environments
- Extremely comfortable for extended-use applications such as dispatch or command centers, as well as, pilot house situations
- Swivel boom allows headset to be worn right or left dress
- Waterproof, flexible-boom microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission

L5 Series Headsets - Single Ear / Lightweight

- Lightweight headset for low noise environments
- Electret microphone and single speaker
- Extremely comfortable for extended-use, light duty applications such as dispatch or control centers
- Stainless steel, swivel boom allows headset to be worn right or left dress
- Radio connectors available for all commonly used portable radios



6B Series Headset



5B Series Headset



L5 Series Headset



LIBERATOR™ WIRELESS HEADSET

Setcom Corporation brings you the next generation of headsets for crew communications. Beyond its state-of-the-art features, our wireless headset is the most functional and durable wireless headset available.

The Liberator Wireless Headset Features:

- Backward compatible with existing wired Setcom 900, 900SP, 950 and 1300 systems
- Installs within minutes on Setcom 900 Series and 1300 systems
- Backward compatible with all major intercom systems from other vendors. Installs within minutes on other systems.

Specifications

- Up to 1200 feet of range (line of sight). Typical range 300ft.
- Cell phone option to directly connect to Bluetooth-compatible mobile phone
- "Instant On" – No need to turn the headset on and off. Advanced motion sensor technology has been integrated into the Liberator Headset. Headset shuts down after 15 minutes of inactivity and will automatically turn back on when the crew member grabs the headset.
- Up to 30 hours of continuous talk time allows for more uses with fewer charges
- Encrypted wireless link for maximum security
- Elimination of some cables reduces intercom installation time and cost
- Ability to integrate portable radio into the headset allowing the crew member to simultaneously communicate over two radio channels
- Premium dual-speaker headset with noise reduction rating of 23dB
- Heavy-duty and durable design to extend life in a demanding environment
- Available in Behind-the-Head
- Will operate while charging and plugged into vessel's power

Components



Liberator Wireless Headset



Liberator Wireless Base

Compatible with these Setcom Systems:



900SP Intercom



977 Intercom



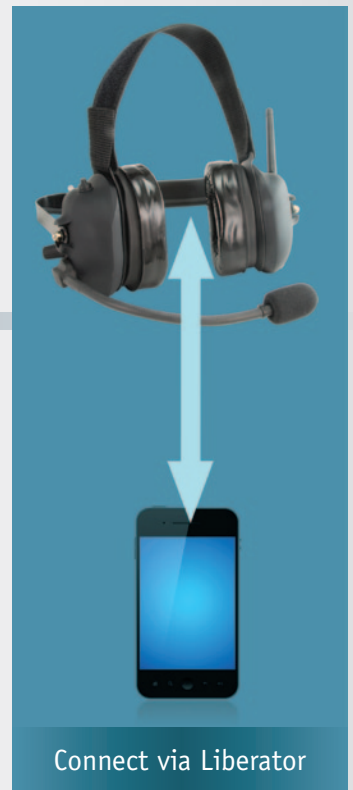
1300 Intercom

BLUETOOTH-ENABLED CELL PHONE INTERFACE

- Only Setcom offers an interface to your wireless headset and vehicle intercom system with a Bluetooth-enabled cell phone.
- Integration applications include:
 - Communicate with dockside workers when docking boat
 - Add cell phone capabilities to a marine command center intercom system
 - Communicate with non-traditional information sources while navigating ports and inland waterways

Direct Connection via Liberator Wireless Headset

- Command Center on Your Head - Communicate with all important radio / audio devices with a single headset. With the Liberator headset, you're able to connect to:
 - up to 3 mobile radios
 - a portable radio
 - a cell phone
 - marine intercom system
 - entertainment audio source plugged into System 950 intercom
- Easy to Use - Simply press a switch and you are connected to your cell phone in less than two seconds.
- Direct Connection to Mobile Phone - No interface box between the Liberator wireless headset and mobile phone.
- Hear Your Call - Let the 23dB noise attenuation of your Liberator headset reduce the background noise so that you can effectively hear the caller on the other end.
- Only from Setcom - Only manufacturer to offer a direct connection to your wireless device from the Liberator wireless headset via the Bluetooth standard.



System 1600



System 1600

The 1600 system provides the ultimate solution for patrol, fire and workboats.

The System 1600 addresses the communications challenges of the marine application like no other system:

- This system allows crew members to select, monitor, and transmit over all 6 radios.
- Unique design provides up to four crew members with the ability to individually control each radio from a remote station.
- Allows the department's radio resource to be utilized more effectively. No need to deploy multiple radios at multiple positions.
- Allows for easy integration of multiple Marine Band VHF Radios and Tactical / Operations Radios for a complete and easy way for teams and vessels to communicate easily and effectively.
- Ideal for Patrol Boats and Fire Boats.
- Setcom stands behind the system with dedicated technical support staff and an in-house service department.

Specifications:

Master & Remote Stations

- Separate radio circuits allow simultaneous transmission on up to six radios.
- System supports up to four radio transmit stations.
- Sophisticated electronics prevent two crew members from transmitting on the same radio at the same time.
- Each remote station has a separate off-on-PTT toggle switch and volume control for each radio.
- The radio toggle switch locks up to turn off audio, locks center to monitor incoming radio traffic, and held down momentarily to transmit via the radio (push-to-talk).
- The intercom locking toggle switch located in the center of the remote station locks up for intercom audio-off, center for intercom listen-only, down for intercom full duplex.
- Interconnect cables are terminated with DB-25 connectors, eliminating any soldering required to install or replace components.
- Protection against radio frequency interference (RFI), electromagnetic interference (EMI) and ground loops.

Headsets

- Noise reduction rating (NRR) of minimum 23dB, meeting NFPA 1500 and OSHA regulations
- Wireless option available (see insert for more details)
- 6-foot coil-cord eliminates the need for extension cables
- Cadmium-bronze, coil-cord conductors prevent broken conductors and intermittent audio

Speakers

- Rigidly mounted in the headset to prevent broken leads
- Specifically designed for radio traffic in the voice frequency range

Microphone

- Waterproof, amplified microphone provides excellent noise cancellation, a superior signal-to-noise ratio and clear voice transmission
- Flexible-boom with counter-wound beryllium-alloy springs resists work-hardening and fatigue

Cabling

- Double shielded cabling (one shield on the microphone line and another on the overall cable) prevents radio frequency and electro-magnetic interference
- Interconnecting cables terminated with locking connectors for easy installation and maintenance

Warranty

- Two years

Components:

Setcom has developed components to suit every situation and will gladly configure a System 1600 to fit your needs.



Master Station



8B Series Headset



CSB Series Headset

APPLICATIONS OF USE



Public Safety / Military

- Fireboat
- Patrol Boat
- Hovercraft
- Coast Guard / Border Security



Workboat

- Tug Boats
- Support and Supply Vessels
- Commercial Fishing
- Crew Transportation
- Deep Sea Construction
- Escort Vessels
- Ship Refurbishment
- Salvage Operation
- Barges
- RoRo Ferry
- Drilling Rigs
- Dredgers
- Offshore Construction
- Bunker Ships
- Pilot Boats



Civilian / Pleasure Boat

- Go-Fast
- Sportfishing
- Hovercrafts



Airboats

- Civilian
- Public Safety / Military
- Touring
- Research

OTHER MARKETS

In addition to marine applications, Setcom is a leader in the following markets:



Police Motorcycle Communications

Setcom has been the dominant leader in police motorcycle communications since we pioneered the market in 1970. Ruggedized helmet communications systems for the most demanding riders.



Fire Apparatus Intercom Systems

Firefighters have relied on Setcom's communications equipment for over forty years. A pioneer in the field, Setcom remains an industry leader because it works with users to develop the kind of innovative, tailormade products professionals depend on.



Industrial

Leveraging Setcom's 45 years of experience servicing the communications requirements of industrial professionals, Setcom offers many single and multi-person system to enhance your crews' communication capabilities. Our systems also offer the hearing protection they need according to OSHA requirements.



ARFF (Aircraft Rescue Firefighting)

The System 1310 has been the premier dual radio, split audio intercom system for over fifteen years. The trusted standard among ARFF departments, 90% of the top-50 US airport fire departments rely on it. Having pioneered split audio, Setcom can configure a system for just about any situation. For those applications where a dual radio system isn't enough, Setcom also offers its System 1600, a premium six radio system.